

IN THE CLAIMS

Please amend the claims as follows:

Claim 1 (Currently Amended): A data transmission system including subscriber units and configured to interconnect with a central office unit which are interconnected via optical fibers, the central office unit multiplexing is configured to multiplex a video signal with signals other than the video signal and to deliver them to the multiple subscriber units, wherein and each subscriber unit is configured to demultiplex demultiplexing a received signal, said data transmission system comprising in said subscriber unit comprising:
a wavelength division multiplexer/demultiplexer having a function of eliminating
configured to eliminate a particular wavelength signal.

Claim 2 (Currently Amended): The data transmission system according to claim 1, wherein said wavelength division multiplexer/demultiplexer reflects is configured to reflect the particular wavelength signal to reject its input.

Claim 3 (Currently Amended): The data transmission system according to claim 1, wherein said wavelength division multiplexer/demultiplexer comprises a reflecting layer for reflecting configured to reflect the particular wavelength signal at an input end surface of an optical fiber of the subscriber unit.

Claim 4 (Currently Amended): The data transmission system according to claim 3, wherein said reflecting layer consists of comprises a dielectric multilayer filter.

Claim 5 (Original): The data transmission system according to claim 1, comprising an optical fiber with a core and a cladding that covers an external surface of the core, and that has multiple notches formed on the cladding to reflect the particular wavelength signal.

Claim 6 (Original). The data transmission system according to claim 1, wherein said wavelength division multiplexer/demultiplexer comprises an optical wave guide that is made of a polymer and absorbs a signal with a wavelength of 1650 nm, which is employed as the particular wavelength signal.

Claim 7 (Currently Amended): A data transmission system including subscriber units and configured to interconnect with a central office unit which are interconnected via optical fibers, the central office unit multiplexing configured to multiplex a video signal with signals other than the video signal and to deliver them to the multiple subscriber units, wherein and each subscriber unit is configured to demultiplex demultiplexing a received signal, and said central office unit comprising, comprises:

an optical amplifier for amplifying configured to amplify the video signal to be transmitted; and

an optical distributor for distributing configured to distribute the video signal output from said optical amplifier[.] and supplying to supply the video signal output to a wavelength division multiplexer/demultiplexer, wherein

each of said subscriber units comprises a wavelength division multiplexer/demultiplexer having a function of eliminating configured to eliminate a particular wavelength signal.

Claim 8 (Currently Amended): A data transmission system including subscriber units and configured to interconnect with a central office unit which are interconnected via optical fibers, the central office unit multiplexing configured to multiplex a video signal with signals other than the video signal and to deliver them to the multiple subscriber units, [[and]] wherein each subscriber unit demultiplexing is configured to demultiplex a received signal, and said central office unit comprising, comprising:

a plurality of video signal generators for generating configured to generate video signals with different wavelengths;

a first wavelength division multiplexer/demultiplexer for multiplexing configured to multiplex the video signals supplied from said plurality of video signal generators;

an optical amplifier for amplifying configured to amplify the video signals output from said first wavelength division multiplexer/demultiplexer; and

an optical distributor for distributing configured to distribute the video signals output from said optical amplifier to a second wavelength division multiplexer/demultiplexer, wherein

each of said subscriber units comprises a wavelength division multiplexer/demultiplexer with a function of eliminating configured to eliminate a particular wavelength signal.

Claim 9 (Currently Amended): A data transmission system including subscriber units and configured to interconnect with a central office unit which are interconnected via optical fibers, the central office unit multiplexing configured to multiplex a video signal with signals other than the video signal and to deliver them to the multiple subscriber units, [[and]] wherein each subscriber unit is configured to demultiplex demultiplexing a received signal, and said subscriber unit comprising, comprises:

a first wavelength division multiplexer/demultiplexer ~~for demultiplexing-configured~~
to demultiplex the video signals and signals other than the video signal; and
a second wavelength division multiplexer/demultiplexer ~~with a function of~~
~~eliminating-configured to eliminate~~ a particular wavelength signal.